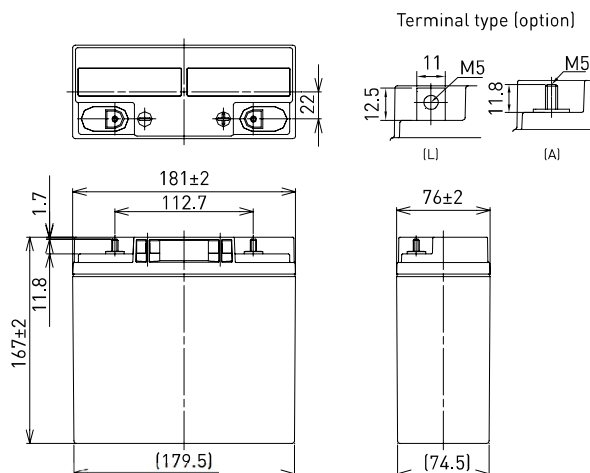


LC-XC1222P

FOR MAIN POWER SUPPLIES.
CYCLE LONG-LIFE TYPE

DIMENSIONS (MM)



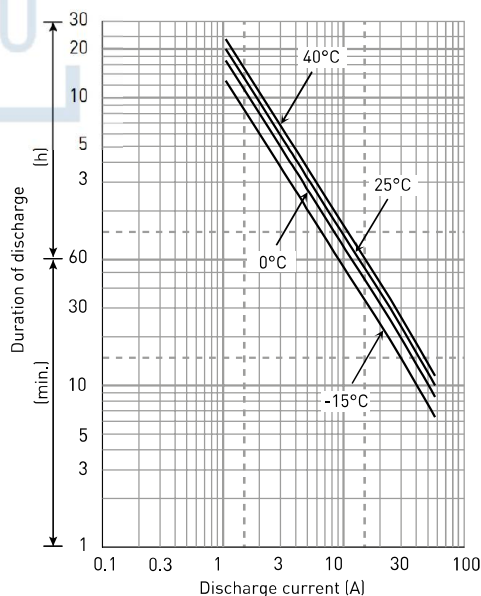
Contents indicated (including the recycle marking, etc.)
are subject to change without notice.

Battery case resin: standard (UL94 HB)

SPECIFICATIONS

| Name | | LC-XC1222P/AP |
|---|------------------------------|-----------------------------|
| Nominal voltage | | 12V |
| Nominal capacity (20 hour rate) | | 22Ah |
| Dimensions | Length | 181mm |
| | Width | 76mm |
| | Height | 167mm |
| Approx. mass | | 6.55kg |
| Terminal | | M5 bolt/nut & threaded post |
| Capacity (25°C) | 20 hour rate | 22Ah |
| | 10 hour rate | 20Ah |
| | 3 hour rate | 17Ah |
| | 1 hour rate | 14Ah |
| Impedance | Fully charged battery (25°C) | 12mΩ |
| | | |
| Temperature dependency of capacity (20 hour rate) | 40°C | 102% |
| | 25°C | 100% |
| | 0°C | 85% |
| | -15°C | 65% |
| Self-discharge (25°C) | After 3 month | 91% |
| | After 6 month | 82% |
| | After 12 month | 64% |

DURATION OF DISCHARGE VS. DISCHARGE CURRENT



WATT TABLE (25°C)

(Wattage/battery)

| Cut-off | 5min. | 10min. | 15min. | 20min. | 30min. | 45min. | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 10h | 20h |
|---------|-------|--------|--------|--------|--------|--------|-----|------|------|------|------|------|------|------|------|
| 9.6V | 803 | 618 | 472 | 396 | 295 | 213 | 172 | 117 | 93.2 | 69.4 | 53.3 | 44.0 | 35.4 | 24.0 | 13.0 |
| 9.9V | 787 | 605 | 469 | 389 | 292 | 211 | 170 | 115 | 92.5 | 69.0 | 53.0 | 43.7 | 35.2 | 23.9 | 13.0 |
| 10.2V | 767 | 590 | 459 | 383 | 289 | 209 | 167 | 112 | 90.1 | 68.3 | 52.6 | 43.3 | 35.0 | 23.6 | 12.9 |
| 10.5V | 710 | 546 | 427 | 363 | 282 | 206 | 163 | 110 | 87.0 | 67.3 | 52.3 | 43.0 | 34.5 | 23.5 | 12.9 |
| 10.8V | 633 | 487 | 399 | 354 | 272 | 203 | 160 | 107 | 82.8 | 65.9 | 51.6 | 41.9 | 34.0 | 23.3 | 12.8 |

AMPERE TABLE (25°C)

(Ampere/battery)

| Cut-off | 5min. | 10min. | 15min. | 20min. | 30min. | 45min. | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 10h | 20h |
|---------|-------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|------|------|
| 9.6V | 77.2 | 59.4 | 43.0 | 36.7 | 25.4 | 18.8 | 14.9 | 9.79 | 7.55 | 5.85 | 4.48 | 3.69 | 2.96 | 2.04 | 1.11 |
| 9.9V | 75.7 | 58.2 | 42.7 | 36.1 | 25.1 | 18.7 | 14.5 | 9.59 | 7.49 | 5.82 | 4.45 | 3.66 | 2.95 | 2.04 | 1.11 |
| 10.2V | 73.7 | 56.7 | 41.8 | 35.5 | 24.8 | 18.5 | 14.2 | 9.40 | 7.30 | 5.76 | 4.42 | 3.63 | 2.93 | 2.02 | 1.10 |
| 10.5V | 68.4 | 52.6 | 38.9 | 33.7 | 24.3 | 18.2 | 13.9 | 9.20 | 7.05 | 5.58 | 4.39 | 3.60 | 2.89 | 2.01 | 1.10 |
| 10.8V | 61.0 | 46.9 | 36.3 | 32.8 | 23.4 | 17.9 | 13.6 | 8.95 | 6.71 | 5.56 | 4.33 | 3.51 | 2.84 | 1.99 | 1.09 |

All mentioned values are average values

LC-XC1222P

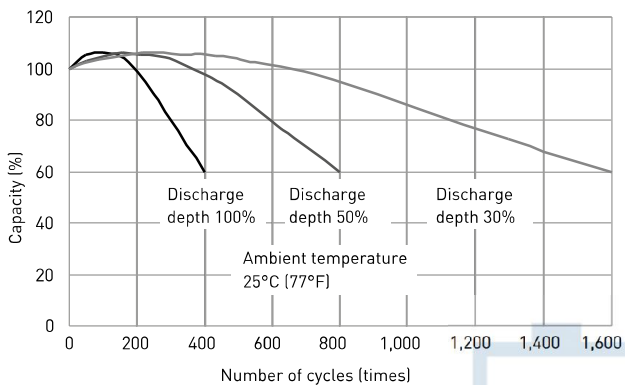
CHARGING METHOD (25°C)

Cycle use Control voltage: 14.5V - 14.9V
Initial current: 8.80A or smaller

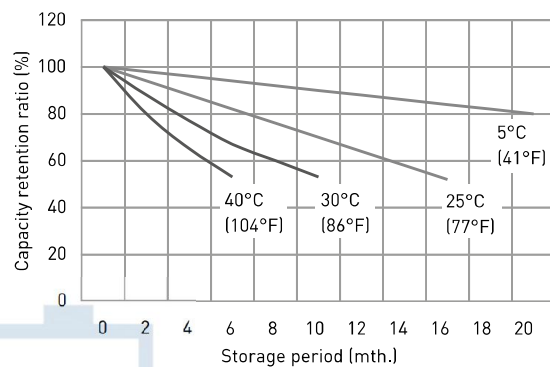
CUT-OFF VOLTAGE

| Discharge current | 1.10A - 5.50A | 5.50A - 11.0A | 11.0A - 22.0A | 22.0A - 44.0A | 44.0A - 66.0A |
|-------------------|---------------|---------------|---------------|---------------|---------------|
| Cut-off voltage | 10.5V | 10.2V | 9.9V | 9.3V | 8.7V |

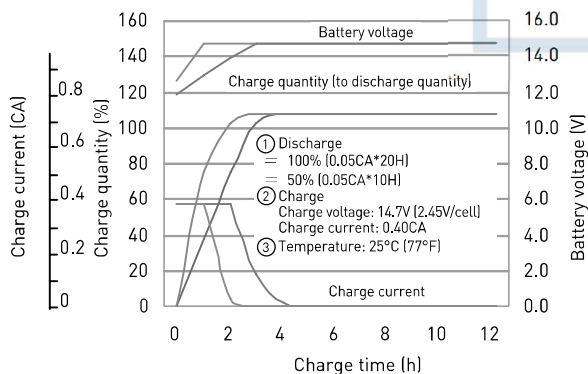
CYCLE LIFE VS. DEPTH OF DISCHARGE (ACC. IEC 61056)



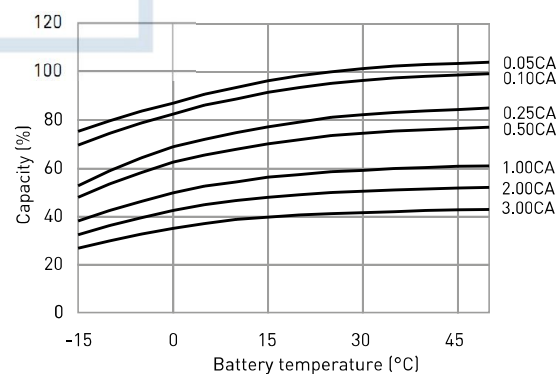
RESIDUAL CAPACITY TEST RESULT



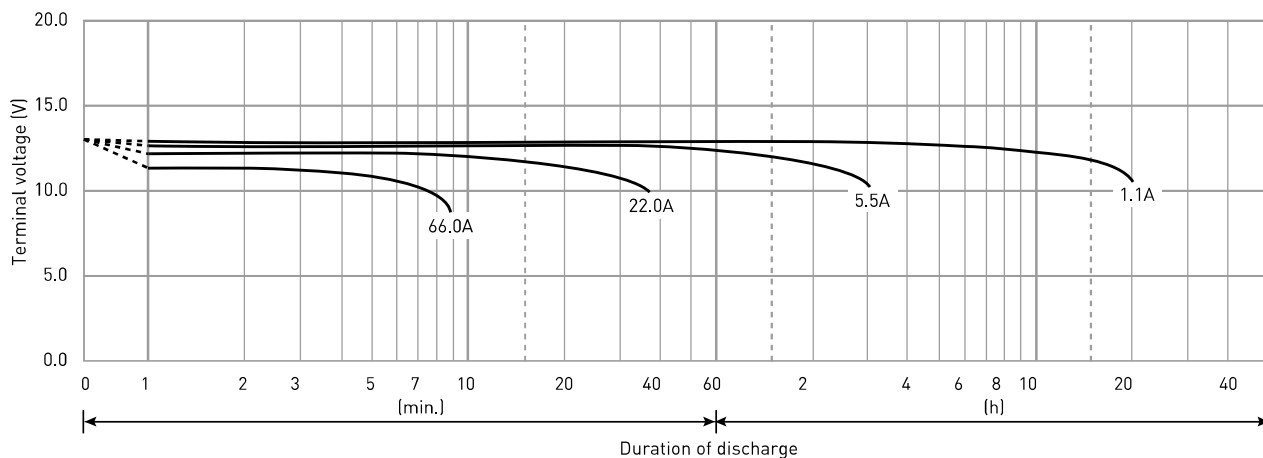
CONSTANT-VOLTAGE CONSTANT-CURRENT CHARGE CHARACTERISTICS FOR CYCLE USE



DISCHARGE CAPACITY BY TEMPERATURE AND BY DISCHARGE CURRENT



DISCHARGE CHARACTERISTICS



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